

*Doc*  
or power contacts,] and comprising:

*C1*  
*Cont*  
*112*  
9 a mating portion for engaging a mating component, said mating portion being  
10 generally planar and having an elongated cross-section, said elongated cross-section  
11 of said mating portion of said signal contacts oriented generally transverse to said *mating?*  
12 elongated cross-section of said *mating* ~~mounting~~ *portion of said ground or power contacts so*  
13 that one end of said elongated cross-section is located adjacent one of said ground or  
14 power contacts and an opposite end of said elongated cross-section is located adjacent  
15 another one of said ground or power contacts [and having an elongated cross-section];  
16 and

a mounting portion for securing the connector to a substrate; and  
a plurality of solder masses, each secured to a respective one of said mounting  
ends of said plurality of ground or power contacts and said plurality of signal contacts  
for securing the connector to the substrate.

18. (Three Times Amended) *A* ball grid array connector mountable to a circuit  
substrate, comprising:

*C2*  
an insulative housing;  
a plurality of continuous contacts disposed in an array of at least three rows and at  
least three columns, each contact extending through said housing, remaining a  
distance away from the circuit substrate, and comprising:  
a mating portion for engaging a contact on a mating component; and  
a mounting portion for securing the connector to a substrate; and  
a plurality of solder masses, each [secured] fused to a respective one of said

C2  
Cont.

mounting portions of said plurality of contacts before said connector mounts to the circuit substrate.

Add the following new claims 42-45.

- 42. (Newly Added) The electrical connector as recited in claim 1, wherein said dielectric base includes a plurality of recesses in a mounting surface, each of said recesses surrounding a corresponding one of said signal contacts or said ground or power contacts so that each of said solder masses correspond to a respective one of said recesses.

C3 43. (Newly Added) The ball grid array connector as recited in claim 18, wherein said insulative housing includes a plurality of recesses on a mounting surface, each of said recesses surrounding a corresponding one of said contacts so that each of said solder masses correspond to a respective one of said recesses.

44. (Newly Added) The electrical connector as recited in claim 32, wherein said mounting face includes at least one of recesses surrounding said at least one contact so that said solder mass corresponds to said recess.

45. (Newly Added) The electrical connector as recited in claim 40, wherein said mounting face includes a recess, said tail portion of said contact residing entirely within said recess.